

Peter Bond

Senior Advisor to the Director
Brookhaven National Laboratory



Dr. Peter Bond is a recently retired Senior Physicist and Senior Advisor to the Director at Brookhaven National Laboratory (BNL). Dr. Bond came to BNL in 1972. His early career was devoted to a variety of experimental nuclear physics topics including nuclear structure, hyperfine interactions, and reaction dynamics with a focus on the use of heavy ions at low and high energy. In 1987 he was named Chair of the Brookhaven Physics Department and served for 10 years in that capacity. From July 1997 to March 1998 he was the Interim Director of the Laboratory. He spent 1999 at the Office of Science and Technology Policy in Washington, D.C. (the office of the Science Advisor to the U.S. President). He has served in a variety of other roles at BNL, including interim Head of the Information Technology Division from December 2002 to October 2003, interim Associate Director of Life Sciences from January 2005 to April 2006, Interim Deputy Director for Science and Technology from 2004 to 2007, and Interim Associate Director for Nuclear and Particle Physics from 2006 to 2007.

Richard T. Carlin

Department Head
Sea Warfare and Weapons Department
Office of Naval Research



Dr. Richard T. Carlin is Department Head for the Sea Warfare and Weapons Department at the Office of Naval Research (ONR). Immediately prior to his current position, Dr. Carlin was the Director for the Undersea Weapons and Naval Materials Division. During his career at ONR, he also served as the Acting Chief Scientist in 2004 and as Director for the Mechanics and Energy Conversion Division from 2001 to 2005. Dr. Carlin joined ONR in 1997 as the Program Officer for Electrochemistry S&T and Undersea Weapons Propulsion. Dr. Carlin serves as the Department of the Navy's Power & Energy S&T Focus Area Executive and is the Navy S&T representative on various energy advisory groups, including Naval Task Force Energy. Before joining ONR, Dr. Carlin held several positions including: Senior Research Chemist at Air Products and Chemicals; a chemistry faculty appointment at the University of Alabama in Tuscaloosa; and federal service as the Electrochemistry Division Chief at the U.S. Air Force Academy's Frank J. Seiler Research Laboratory.

Kathryn Clay

Vice President for Policy Strategy
American Gas Association



As Vice President for Policy Strategy at the American Gas Association, Kathryn Clay drives thought-leadership on natural gas utility demand growth and engages in stakeholder outreach to achieve the industry's policy and growth objectives. Previously, she managed the joint industry Drive Natural Gas Initiative to advance the policy and regulatory environment for natural gas vehicles. She has served as Executive Director of the American Gas Foundation since 2011. Previously, Dr. Clay was the Vice President of Research and Technology Policy for the Alliance of Automobile Manufacturers and a member of the professional staff of the Senate Energy and Natural Resources Committee, where she worked to develop the Energy Independence and Security Act of 2007 and the Energy Policy Act of 2005. She has also served in positions with the staff of the Energy Subcommittee of the U.S. House of Representatives Committee on Science, at the Massachusetts Division of Energy Resources, and as a research fellow in the Alternate Fuels Vehicle Division of Ford Motor Company.

Catherine Dunwoody

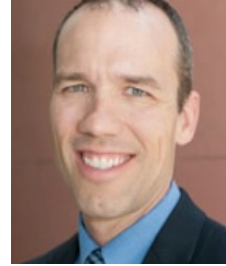
Chief, Fuel Cell Program
California Air Resources Board



Prior to her 2014 appointment as the Chief of the Fuel Cell Program at the California Air Resources Board, Ms. Catherine Dunwoody was the Executive Director of the California Fuel Cell Partnership (CaFCP), since 1999 when it was announced as a fuel cell vehicle demonstration program. Today the CaFCP is globally recognized as a leader in promoting hydrogen fuel cell vehicle commercialization. Catherine led the CaFCP's team of industry and government members in their collaborative planning, technical, and outreach activities. Ms. Dunwoody started her career at the California Air Resources Board in the mid-1980s as a laboratory chemist, then managing teams responsible for stationary source testing and implementing clean vehicle regulations. In 2011, Automotive News named Catherine as one of the "Electrifying 100" most influential players in the move to electric drive vehicles.

Anthony Eggert

Executive Director
Policy Institute for Energy, Environment and the Economy
University of California, Davis



Mr. Anthony Eggert is the Executive Director of the UC Davis Policy Institute for Energy, Environment and the Economy. From 2007 through 2012, Mr. Eggert served as an appointee of Governors Brown and Schwarzenegger in several senior policy positions, including Science and Technology Policy Advisor to the chair of the Air Resources Board, where he helped implement the Global Warming Solutions Act (AB32) and other California clean air laws. He also served as commissioner for the California Energy Commission. Mr. Eggert was also Deputy Secretary for Energy Policy of the California Environmental Protection Agency, overseeing clean energy and environmental policy development for California. Prior positions include advising the University of California on federal energy and climate policy; directing research on low-carbon fuels and vehicles at UC Davis' Institute of Transportation Studies; and engineer, and then manager, for Ford Motor Company, where he worked on emissions control and advanced vehicle design and deployment for hybrid, electric, and fuel cell vehicles.

Charles E. Freese V.

Executive Director, Global Fuel Cell Activities
General Motors Company



As Executive Director of General Motors' Fuel Cell Activities, Mr. Charles Freese leads GM's worldwide fuel cell development organization, with sites in Michigan, New York, California, Washington, D.C., Hawaii, and Germany. He began his career at Detroit Diesel Corporation in 1989, where he held multiple positions in the Advanced Engineering, Product Engineering, and Sales organizations. In 2001, Mr. Freese became Chief Engineer–Diesel Engines for Ford Motor Company. In 2003, Mr. Freese moved to General Motors Corporation, as Executive Director for Global Diesel Engineering. In 2008, he assumed responsibility for GM's Global Fuel Cell Activities, as Executive Director. Mr. Freese is currently responsible for more than 400 engineers and researchers. This team reduced fuel cell system costs by orders of magnitude, operated the world's largest fleet of fuel cell vehicles, and developed commercially viable fuel cell designs with benchmark mass, size, and performance.

John D. Hofmeister

Founder and Chief Executive
Citizens for Affordable Energy, Inc.



Mr. John Hofmeister, upon retirement as President of Shell Oil Company in 2008, founded the 501(c)(3) not-for-profit nationwide membership association Citizens for Affordable Energy, Inc. This Washington, D.C.-registered, public policy education firm promotes sound U.S. energy and environmental security solutions for the nation. Mr. Hofmeister was named President of Houston-based Shell Oil Company in March 2005, heading the U.S. Country Leadership Team, which included the leaders of all Shell businesses operating in the United States. He became President after serving as Group Human Resource Director of the Royal Dutch Shell Group, based in The Hague, Netherlands. Mr. Hofmeister has also held executive leadership positions in GE, Nortel, and AlliedSignal (now Honeywell International). Mr. Hofmeister served as the Chair of the National Urban League for seven years, to November 2014. He currently serves on the boards of Hunting plc, Applus Services SA, and Camac Energy Inc. He also serves on the U.S. Energy Security Council and Fuel Freedom Foundation Advisory Boards. He currently serves as Chair of the U.S. Department of Energy's Hydrogen and Fuel Cell Technical Advisory Committee.

Maurice Kaya

Consultant and Project Director
Pacific International Center for High Technology Research



Mr. Maurice Kaya serves as Project Director for the Pacific International Center for High Technology Research. He currently directs the Energy Excelsator, a clean technology business accelerator that invests in promising business startups in the Hawaii market, the world's premier test-bed for advanced energy technologies. Mr. Kaya previously served as Chief Technology Officer for the Hawaii Department of Business, Economic Development and Tourism. In this position, Mr. Kaya was the principal advisor on clean energy to the governor of Hawaii. Mr. Kaya currently serves as a board member of Energy Industries, a leading clean energy project integrator in the United States. Mr. Kaya has been recognized with numerous honors, including awards from the Governor of Hawaii, the Hawaii Legislature, the U.S. Secretary of Energy, the Blue Planet Foundation, and the Hawaii Institute of Public Affairs.

Harol Koyama

CEO
H2 PowerTech



Mr. Harol (Hal) Koyama became CEO of H2 PowerTech LLC as that company emerged from IdaTech, following a partial acquisition of IdaTech's assets by Ballard in 2013. Mr. Koyama was also President and CEO of IdaTech before this acquisition, and prior to that, he served at IdaTech as Senior Vice President of Marketing and Sales. While at IdaTech, and in his current role at H2 PowerTech, Mr. Koyama has focused on developing hydrogen production and fuel cell power generation products capable of competing with traditional power generation systems, such as diesel generators, for grid-connected backup power and off-grid primary power applications. Prior to joining IdaTech, Mr. Koyama was Senior Vice President of Sales and Marketing at Capstone Turbine Corporation, a leading microturbine manufacturer, where he streamlined sales and marketing and accelerated market development efforts worldwide. Prior to his work at Capstone, Mr. Koyama was Vice President of Business Development for International Fuel Cells (a subsidiary of United Technologies). Mr. Koyama also has more than five years of experience as a management consultant with McKinsey & Company, focusing on energy and operations issues.

Paul Leggett

Managing Director
Mithril Capital Management LLC



Mr. Paul Leggett is a Managing Director at Mithril Capital Management, focused on technology, macroeconomics, and finance. Prior to Mithril, Mr. Leggett helped lead Morgan Stanley's Clean Energy investment banking business with additional interests in energy policy, energy security, and technology innovation. He also worked in Morgan Stanley's Global Sustainable Finance and Mergers & Acquisitions groups. Mr. Leggett began his career in Natural Resources at Lehman Brothers. He is a member of the Sierra Club Clean Technology Leadership Council as well as a former Corporate Leader and current Term Member of the Council on Foreign Relations.

Timothy Lipman

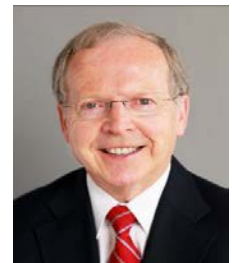
Co-Director, Transportation Sustainability Research Center
Director, U.S. DOE Pacific Region Clean Energy Application Center
University of California – Berkeley



Dr. Timothy E. Lipman is a clean-energy technology researcher and lecturer with the University of California – Berkeley. He currently serves as Co-Director of the UC Berkeley Transportation Sustainability Research Center, part of the Institute of Transportation Studies. Dr. Lipman also serves as Lecturer in the Department of Civil and Environmental Engineering. Dr. Lipman's research focuses on technical, market, and policy assessments, as well as on real-world testing and validation of electric vehicle, hydrogen, fuel cell, combined heat and power, and other clean energy technologies. He oversees a test fleet of hydrogen fuel cell and plug-in electric vehicles, as well as the operation of the first 700-bar hydrogen fueling station to become operational in Northern California, situated at the UC Berkeley Global Campus in Richmond. Dr. Lipman is also Chair of the Alternative Transportation Fuels and Technologies Committee of the National Academies' Transportation Research Board. He serves on the Editorial Board for the *International Journal of Sustainable Engineering* and was Section Editor for the "Hydrogen Production Science and Technology" section of the new *Springer Encyclopedia of Sustainability Science and Technology*.

Alan C. Lloyd

President Emeritus
International Council on Clean Transportation



Dr. Alan C. Lloyd served as the President of the International Council on Clean Transportation (ICCT) from 2006 to 2013. He is one of the founding members of the ICCT. As of 2014, Dr. Lloyd now serves as President Emeritus and an active Board Member of the ICCT. Dr. Lloyd served as the Secretary of the California Environmental Protection Agency from 2004 through February 2006 and as the Chairman of the California Air Resources Board (CARB) from 1999 to 2004. Prior to joining CARB, Dr. Lloyd was the Executive Director of the Energy and Environmental Engineering Center for the Desert Research Institute at the University and Community College System of Nevada, Reno, and the chief scientist at the South Coast Air Quality Management District from 1988 to 1996. Dr. Lloyd was the 2003 Chairman of the California Fuel Cell Partnership, a co-founder of the California Stationary Fuel Cell collaborative.

Frank Novachek

Director of Corporate Planning
Xcel Energy



Mr. Frank Novachek is the Manager of Planning and Technology Assessment for Xcel Energy, where he has worked for more than 35 years. Prior to this role, Mr. Novachek held a variety of positions, including Chief Internal Auditor and Director of Product Development. Mr. Novachek began his career at Xcel Energy working at the Fort St. Vrain Nuclear Generating Station, which is the only commercial advanced high-temperature gas-cooled nuclear reactor in the United States. Mr. Novachek was also the integration manager for the two multi-billion dollar mergers that created New Century Energies in the mid-1990s and, ultimately, Xcel Energy in 2000. He also serves as Chair of Electric Power Research Institute's Energy Storage and Distributed Generation Program Advisory Council and is Vice Chair of the U.S. Department of Energy's Hydrogen and Fuel Cell Technical Advisory Committee.

Joan M. Ogden

Director
Sustainable Transportation Pathways Program
Institute of Transportation Studies
University of California, Davis



Dr. Joan Ogden is Professor of Environmental Science and Policy at the University of California, Davis and Director of the Sustainable Transportation Energy Pathways (STEPs) Program at the university's Institute of Transportation Studies (ITS-Davis). Dr. Ogden was a research scientist at Princeton University's Center for Energy and Environmental Studies, Princeton Environmental Institute, from 1985–2003. She joined the faculty of UC Davis in September 2003. She participated in the development of Department of Energy's (DOE's) Hydrogen Vision and Hydrogen Roadmap in 2001–2002, and she headed the systems integration team for the National Hydrogen Roadmap. Dr. Ogden worked on the DOE Hydrogen Analysis (H2A) project with a group of hydrogen analysts convened by DOE to develop a consistent framework for analyzing hydrogen systems, and she received R&D Excellence Awards from DOE for this work. In 2004, Dr. Ogden served on the Blueprint Advisory Panel for the California Hydrogen Highway Network. In 2007–2008, she served on a National Academies panel that assessed research needs for hydrogen and fuel cell technologies, and in 2009–2010 she served on a National Academies panel assessing these needs for plug-in hybrid electric vehicles. She was a lead author on a recent Intergovernmental Panel on Climate Change report on Renewable Energy.

Margo Oge

Former Director, Office of Transportation and Air Quality
United States Environmental Protection Agency



Ms. Margo Oge served the U.S. Environmental Protection Agency (EPA) for more than 30 years from 1980 to September 2012. During her recent 18-year tenure as Director of the EPA's Office of Transportation and Air Quality, Ms. Oge was the chief architect of the most important achievements in the history of air pollution control in the U.S. transportation sector. These included programs that reduced emissions from automobiles, and gasoline and diesel fueled trucks, buses, and off-road vehicles (including locomotives and marine vessels) by up to 99 percent. Most recently, Ms. Oge led the EPA's development of the first-ever national greenhouse gas emission standards for cars and heavy-duty trucks, helped establish the Renewable Fuels Standard, and was instrumental in establishing the United Nations process on global harmonization of transportation emissions standards worldwide. She is currently a member of the National Academies of Science Board on Energy and Environment and is the Vice Chairman of the Board for Delta Wing Technologies.

Robert Rose

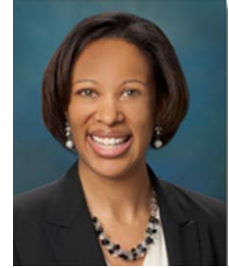
Executive Director
Breakthrough Technologies Institute, Inc.



Mr. Robert Rose is Executive Director of the Breakthrough Technologies Institute, Inc. (BTI), an independent nonprofit advocate for technologies that carry environmental benefits to society. BTI's fuel cell education program, Fuel Cells 2000, was established in 1993 and won international recognition during 21 years of operation. Mr. Rose founded the U.S. Fuel Cell Council, the trade association of the fuel cell industry, in 1998 and was Executive Director for 10 years. Mr. Rose authored "Fuel Cells and Hydrogen: The Path Forward," which outlines a public-private partnership to develop and commercialize fuel cells. This publication helped shape the hydrogen and fuel cell provisions of the Energy Policy Act of 2005. Mr. Rose was a working journalist in New England before moving to Washington to work for Senator Edmund S. Muskie of Maine, as Press Secretary and, during Muskie's tenure as Secretary of State in 1980, as Senior Special Advisor. In 1981, Mr. Rose established Rose Communications, Inc., to serve public and private sector clients, specializing in policy analysis and media.

Janea Scott

Commissioner
California Energy Commission



Ms. Janea Scott was appointed by Governor Jerry Brown in February 2013. She fills the Public Member position on the five-member California Energy Commission. Prior to her appointment, Ms. Scott worked at the Department of the Interior in the Office of the Secretary as the Deputy Counselor for Renewable Energy and as the Special Assistant to the Counselor to the Secretary. In that role, Ms. Scott worked on facilitating and implementing Secretary Ken Salazar's priorities for the Department, including establishing an enduring program for renewable energy on our nation's public lands. Before joining the Interior team in April of 2009, Ms. Scott worked on clean air issues as a senior attorney at the Environmental Defense Fund, a nonprofit organization that partners with businesses, governments, and communities to find practical environmental solutions.

Robert W. Shaw, Jr.

President (retired)
Areté Corporation



Dr. Robert Shaw has managed venture capital funds focused on alternative energy technologies for nearly 30 years. As President of Arête Corporation, he managed the Micro-Generation Technology Fund, a venture capital fund investing in small-scale alternative energy systems, from its inception in 1997 to completion at the end of 2008. From 2007 until 2010, Dr. Shaw managed SC Green Tech Ventures for Sumitomo Corporation. Beginning his venture-capital career in 1983, Dr. Shaw was Founder and President of Arête Ventures, Inc., and served as the managing partner of the five Utech Funds from their inception to completion. Among the companies in which Dr. Shaw's venture funds invested were several in the hydrogen and fuel cell field, including Ballard Power, Proton Energy Systems, Hydrogenics, H2Gen Innovations, ACAL Energy, and Angstrom Power. Prior to forming Arête, he was a senior vice president and a member of the board of directors of the management consulting firm, Booz, Allen & Hamilton. Earlier in his career, he conducted solid state physics research at Bell Laboratories and at the Cavendish Laboratory in the U.K., where he was an AFOSR postdoctoral fellow. He has also served two terms on the Board on Energy and Environmental Systems of the National Research Council.

Levi Thompson

Professor of Chemical Engineering
University of Michigan



Dr. Levi Thompson is the Richard E. Balzhiser Professor of Chemical Engineering and Professor of Mechanical Engineering at the University of Michigan. He is also Director of the Hydrogen Energy Technology Laboratory, a multi-user research facility supporting hydrogen research at the University of Michigan. Professor Thompson is recipient of awards including a 2006 Michiganiaan of the Year Award for his research, entrepreneurship, and teaching, National Science Foundation Presidential Young Investigator Award, McBride Distinguished Lectureship, Union Carbide Innovation Recognition Award, Dow Chemical Good Teaching Award, and Engineering Society of Detroit Gold Award. He is co-founder of T/J Technologies, a developer of nanomaterials for advanced batteries that was acquired by A123 Systems in 2006. He also founded Inmatech to commercialize catalytic materials and processes discovered and developed in his laboratories. Professor Thompson was Consulting Editor for the *AIChE Journal*, and presently serves on the Department of Energy's Hydrogen Technology Advisory Committee, National Academy's Chemical Sciences Roundtable, External Advisory Committee for the Center of Advanced Materials for Purification of Water with Systems, and American Institute of Chemical Engineers (AIChE) Board of Directors. From 2001 to 2005, he served as Associate Dean for Undergraduate Education in the College of Engineering at the University of Michigan.